

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING

ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: _____

Source: _____

Date Processed by STIC: _____

10/511,719A

IFW16

02/27/2007

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: <u>10/511, 719 A</u>
ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE		
1 <u> </u> Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."	
2 <u> </u> Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.	
3 <u> </u> Misaligned Amino Numbering	The numbering under each 5 th amino acid is misaligned. Do not use tab codes between numbers; use space characters , instead.	
4 <u> </u> Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text .	
5 <u> </u> Variable Length	Sequence(s) <u> </u> contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.	
6 <u> </u> PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) <u> </u> . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.	
7 <u> </u> Skipped Sequences (OLD RULES)	Sequence(s) <u> </u> missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.	
8 <u> </u> Skipped Sequences (NEW RULES)	Sequence(s) <u> </u> missing. If intentional , please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000	
9 <u> </u> Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa , and which residue n or Xaa represents.	
10 <u> </u> Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence. (see item 11 below)	
11 <u> </u> Use of <220>	Sequence(s) <u> </u> missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section or use "chemically synthesized" as explanation. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32), also Sec. 1.823 of Sequence Rules	
12 <u> </u> PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
13 <u> </u> Misuse of n/Xaa	"n" can only represent a single <u>nucleotide</u> ; "Xaa" can only represent a single <u>amino acid</u>	

CP 9-1-1

15

Invalid
Amino
Acid
Numbering.

80

See Gloss 3

95

on Ezer
Summary
Sheet.

RAW SEQUENCE LISTING

DATE: 02/27/2007

PATENT APPLICATION: US/10/511,719A

TIME: 11:08:37

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\02272007\J511719A.raw

58	Ile Val Thr Val Asn Cys Ala Arg Leu Leu Lys Ala Asp His His Ala	
E--> 59	210 215 220	
61	Thr Asn Gly Val Val His Leu Ile Asp Lys Val Ile Ser Thr Ile Thr	
E--> 62	225 230 235	240
64	Asn Asn Ile Gln Gln Ile Ile Glu Ile Glu Asp Thr Phe Glu Thr Leu	
E--> 65	245 250	255
67	Arg Ala Ala Val Ala Ala Ser Gly Leu Asn Thr Met Leu Glu Gly Asn	
E--> 68	260 265 270	
70	Gly Gln Tyr Thr Leu Leu Ala Pro Thr Asn Glu Ala Phe Glu Lys Ile	
E--> 71	275 280 285	
73	Pro Ser Glu Thr Leu Asn Arg Ile Leu Gly Asp Pro Glu Ala Leu Arg	
E--> 74	290 295 300	
76	Asp Leu Leu Asn Asn His Ile Leu Lys Ser Ala Met Cys Ala Glu Ala	
E--> 77	305 310 315	320
79	Ile Val Ala Gly Leu Ser Val Glu Thr Leu Glu Gly Thr Thr Leu Glu	
E--> 80	325 330	335
82	Val Gly Cys Ser Gly Asp Met Leu Thr Ile Asn Gly Lys Ala Ile Ile	
E--> 83	340 345 350	
85	Ser Asn Lys Asp Ile Leu Ala Thr Asn Gly Val Ile His Tyr Ile Asp	
E--> 86	355 360 365	
88	Glu Leu Leu Ile Pro Asp Ser Ala Lys Thr Leu Phe Glu Leu Ala Ala	
E--> 89	370 375 380	
91	Glu Ser Asp Val Ser Thr Ala Ile Asp Leu Phe Arg Gln Ala Gly Leu	
E--> 92	385 390 395	400
94	Gly Asn His Leu Ser Gly Ser Glu Arg Leu Thr Leu Leu Ala Pro Leu	
E--> 95	405 410	415
97	Asn Ser Val Phe Lys Asp Gly Thr Pro Pro Ile Asp Ala His Thr Arg	
E--> 98	420 425 430	
100	Asn Leu Leu Arg Asn His Ile Ile Lys Asp Gln Leu Ala Ser Lys Tyr	
E--> 101	435 440 445	
103	Leu Tyr His Gly Gln Thr Leu Glu Thr Leu Gly Gly Lys Lys Leu Arg	
E--> 104	450 455 460	
106	Val Phe Val Tyr Arg Asn Ser Leu Cys Ile Glu Asn Ser Cys Ile Ala	
E--> 107	465 470 475	480
109	Ala His Asp Lys Arg Gly Arg Tyr Gly Thr Leu Phe Thr Met Asp Arg	
E--> 110	485 490	495
112	Val Leu Thr Pro Pro Met Gly Thr Val Met Asp Val Leu Lys Gly Asp	
E--> 113	500 505 510	
115	Asn Arg Phe Ser Met Leu Val Ala Ala Ile Gln Ser Ala Gly Leu Thr	
E--> 116	515 520 525	
118	Glu Thr Leu Asn Arg Glu Gly Val Tyr Thr Val Phe Ala Pro Thr Asn	
E--> 119	530 535 540	
121	Glu Ala Phe Arg Ala Leu Pro Pro Arg Glu Arg Ser Arg Leu Leu Gly	
E--> 122	545 550 555	560
124	Asp Ala Lys Glu Leu Ala Asn Ile Leu Lys Tyr His Ile Gly Asp Glu	
E--> 125	565 570	575
127	Ile Leu Val Ser Gly Gly Ile Gly Ala Leu Val Arg Leu Lys Ser Leu	
E--> 128	580 585 590	
130	Gln Gly Asp Lys Leu Glu Val Ser Leu Lys Asn Asn Val Val Ser Val	

Same
Error

RAW SEQUENCE LISTING

DATE: 02/27/2007

PATENT APPLICATION: US/10/511,719A

TIME: 11:08:37

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\02272007\J511719A.raw

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E--> 131          595          600          605
      133 Asn Lys Glu Pro Val Ala Glu Pro Asp Ile Met Ala Thr Asn Gly Val
E--> 134          610          615          620
      136 Val His Val Ile Thr Asn Val Leu Gln Pro Pro Ala Asn Arg Pro Gln
E--> 137 625          630          635          640
      139 Glu Arg Gly Asp Glu Leu Ala Asp Ser Ala Leu Glu Ile Phe Lys Gln
E--> 140          645          650          655
      142 Ala Ser Ala Phe Ser Arg Ala Ser Gln Arg Ser Val Arg Leu Ala Pro
E--> 143          660          665          670
      145 Val Tyr Gln Lys Leu Leu Glu Arg Met Lys His
E--> 146          675          680
      246 <210> SEQ ID NO: 3
      247 <211> LENGTH: 585
      248 <212> TYPE: PRT
      249 <213> ORGANISM: Homo sapiens
      251 <220> FEATURE:
      252 <221> NAME/KEY: PEPTIDE
      253 <222> LOCATION: (1)..(585)
      254 <223> OTHER INFORMATION: 69 to 653 amino acid sequence of human ID No.1
      257 <400> SEQUENCE: 3
      258 Tyr Gln Arg Lys Ile Cys Gly Lys Ser Thr Val Ile Ser Tyr Glu Cys
E--> 259 1          5          10          15
      261 Cys Pro Gly Tyr Glu Lys Val Pro Gly Glu Lys Gly Cys Pro Ala Ala
E--> 262          20          25          30
      264 Leu Pro Leu Ser Asn Leu Tyr Glu Thr Leu Gly Val Val Gly Ser Thr
E--> 265          35          40          45
      267 Thr Thr Gln Leu Tyr Thr Asp Arg Thr Glu Lys Leu Arg Pro Glu Met
E--> 268          50          55          60
      270 Glu Gly Pro Gly Ser Phe Thr Ile Phe Ala Pro Ser Asn Glu Ala Trp
E--> 271 65          70          75          80
      273 Ala Ser Leu Pro Ala Glu Val Leu Asp Ser Leu Val Ser Asn Val Asn
E--> 274          85          90          95
      276 Ile Glu Leu Leu Asn Ala Leu Arg Tyr His Met Val Gly Arg Arg Val
E--> 277          100          105          110
      279 Leu Thr Asp Glu Leu Lys His Gly Met Thr Leu Thr Ser Met Tyr Gln
E--> 280          115          120          125
      282 Asn Ser Asn Ile Gln Ile His His Tyr Pro Asn Gly Ile Val Thr Val
E--> 283          130          135          140
      285 Asn Cys Ala Arg Leu Leu Lys Ala Asp His His Ala Thr Asn Gly Val
E--> 286 145          150          155          160
      288 Val His Leu Ile Asp Lys Val Ile Ser Thr Ile Thr Asn Asn Ile Gln
E--> 289          165          170          175
      291 Gln Ile Ile Glu Ile Glu Asp Thr Phe Glu Thr Leu Arg Ala Ala Val
E--> 292          180          185          190
      294 Ala Ala Ser Gly Leu Asn Thr Met Leu Glu Gly Asn Gly Gln Tyr Thr
E--> 295          195          200          205
      297 Leu Leu Ala Pro Thr Asn Glu Ala Phe Glu Lys Ile Pro Ser Glu Thr
E--> 298          210          215          220
      300 Leu Asn Arg Ile Leu Gly Asp Pro Glu Ala Leu Arg Asp Leu Leu Asn

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Same
Error

RAW SEQUENCE LISTING

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Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\02272007\J511719A.raw

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E--> 301 225          230          235          240
      303 Asn His Ile Leu Lys Ser Ala Met Cys Ala Glu Ala Ile Val Ala Gly
E--> 304          245          250          255
      306 Leu Ser Val Glu Thr Leu Glu Gly Thr Thr Leu Glu Val Gly Cys Ser
E--> 307          260          265          270
      309 Gly Asp Met Leu Thr Ile Asn Gly Lys Ala Ile Ile Ser Asn Lys Asp
E--> 310          275          280          285
      312 Ile Leu Ala Thr Asn Gly Val Ile His Tyr Ile Asp Glu Leu Leu Ile
E--> 313          290          295          300
      315 Pro Asp Ser Ala Lys Thr Leu Phe Glu Leu Ala Ala Glu Ser Asp Val
E--> 316 305          310          315          320
      318 Ser Thr Ala Ile Asp Leu Phe Arg Gln Ala Gly Leu Gly Asn His Leu
E--> 319          325          330          335
      321 Ser Gly Ser Glu Arg Leu Thr Leu Leu Ala Pro Leu Asn Ser Val Phe
E--> 322          340          345          350
      324 Lys Asp Gly Thr Pro Pro Ile Asp Ala His Thr Arg Asn Leu Leu Arg
E--> 325          355          360          365
      327 Asn His Ile Ile Lys Asp Gln Leu Ala Ser Lys Tyr Leu Tyr His Gly
E--> 328          370          375          380
      330 Gln Thr Leu Glu Thr Leu Gly Gly Lys Lys Leu Arg Val Phe Val Tyr
E--> 331 385          390          395          400
      333 Arg Asn Ser Leu Cys Ile Glu Asn Ser Cys Ile Ala Ala His Asp Lys
E--> 334          405          410          415
      336 Arg Gly Arg Tyr Gly Thr Leu Phe Thr Met Asp Arg Val Leu Thr Pro
E--> 337          420          425          430
      339 Pro Met Gly Thr Val Met Asp Val Leu Lys Gly Asp Asn Arg Phe Ser
E--> 340          435          440          445
      342 Met Leu Val Ala Ala Ile Gln Ser Ala Gly Leu Thr Glu Thr Leu Asn
E--> 343          450          455          460
      345 Arg Glu Gly Val Tyr Thr Val Phe Ala Pro Thr Asn Glu Ala Phe Arg
E--> 346 465          470          475          480
      348 Ala Leu Pro Pro Arg Glu Arg Ser Arg Leu Leu Gly Asp Ala Lys Glu
E--> 349          485          490          495
      351 Leu Ala Asn Ile Leu Lys Tyr His Ile Gly Asp Glu Ile Leu Val Ser
E--> 352          500          505          510
      354 Gly Gly Ile Gly Ala Leu Val Arg Leu Lys Ser Leu Gln Gly Asp Lys
E--> 355          515          520          525
      357 Leu Glu Val Ser Leu Lys Asn Asn Val Val Ser Val Asn Lys Glu Pro
E--> 358          530          535          540
      360 Val Ala Glu Pro Asp Ile Met Ala Thr Asn Gly Val Val His Val Ile
E--> 361 545          550          555          560
      363 Thr Asn Val Leu Gln Pro Pro Ala Asn Arg Pro Gln Glu Arg Gly Asp
E--> 364          565          570          575
      366 Glu Leu Ala Asp Ser Ala Leu Glu Ile
E--> 367          580          585
      439 <210> SEQ ID NO: 5
      440 <211> LENGTH: 609
      441 <212> TYPE: PRT
      442 <213> ORGANISM: Mouse Intracisternal A-particle

```

*Same
Error*

*See glem 10
on Error Summary
Sheet.*

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DATE: 02/27/2007

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Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\02272007\J511719A.raw

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444 <220> FEATURE:
445 <221> NAME/KEY: PEPTIDE
446 <222> LOCATION: (1)..(609)
447 <223> OTHER INFORMATION: 23 to 641 amino acid sequence of mouse
450 <400> SEQUENCE: 5
451 Ala Gly Pro Ala Lys Ser Pro Tyr Gln Leu Val Leu Gln His Ser Arg
E--> 452   1           5           10           15
454 Leu Arg Gly Arg Gln His Gly Pro Asn Val Cys Ala Val Gln Lys Val
E--> 455           20           25           30
457 Ile Gly Thr Asn Arg Lys Tyr Phe Thr Asn Cys Lys Gln Trp Tyr Gln
E--> 458           35           40           45
460 Arg Lys Ile Cys Gly Lys Ser Thr Val Ile Ser Tyr Glu Cys Cys Pro
E--> 461           50           55           60
463 Gly Tyr Glu Lys Val Pro Gly Glu Lys Gly Cys Pro Ala Ala Leu Pro
E--> 464   65           70           75           80
466 Leu Ser Asn Leu Tyr Glu Thr Leu Gly Val Val Gly Ser Thr Thr Thr
E--> 467           85           90           95
470 Gln Leu Tyr Thr Asp Arg Thr Glu Lys Leu Arg Pro Glu Met Glu Gly
E--> 471           100          105          110
473 Pro Gly Ser Phe Thr Ile Phe Ala Pro Ser Asn Glu Ala Trp Ala Ser
E--> 474           115          120          125
476 Leu Pro Ala Glu Val Leu Asp Ser Leu Val Ser Asn Val Asn Ile Glu
E--> 477           130          135          140
479 Leu Leu Asn Ala Leu Arg Tyr His Met Val Gly Arg Arg Val Leu Thr
E--> 480 145          150          155          160
482 Asp Glu Leu Lys His Gly Met Thr Leu Thr Ser Met Tyr Gln Asn Ser
E--> 483           165          170          175
485 Asn Ile Gln Ile His His Tyr Pro Asn Gly Ile Val Thr Val Asn Cys
E--> 486           180          185          190
488 Ala Arg Leu Leu Lys Ala Asp His His Ala Thr Asn Gly Val Val His
E--> 489           195          200          205
491 Leu Ile Asp Lys Val Ile Ser Thr Ile Thr Asn Asn Ile Gln Gln Ile
E--> 492           210          215          220
494 Ile Glu Ile Glu Asp Thr Phe Glu Thr Leu Arg Ala Ala Val Ala Ala
E--> 495 225          230          235          240
497 Ser Gly Leu Asn Thr Met Leu Glu Gly Asn Gly Gln Tyr Thr Leu Leu
E--> 498           245          250          255
500 Ala Pro Thr Asn Glu Ala Phe Glu Lys Ile Pro Ser Glu Thr Leu Asn
E--> 501           260          265          270
503 Arg Ile Leu Gly Asp Pro Glu Ala Leu Arg Asp Leu Leu Asn Asn His
E--> 504           275          280          285
506 Ile Leu Lys Ser Ala Met Cys Ala Glu Ala Ile Val Ala Gly Leu Ser
E--> 507           290          295          300
509 Val Glu Thr Leu Glu Gly Thr Thr Leu Glu Val Gly Cys Ser Gly Asp
E--> 510 305          310          315          320
512 Met Leu Thr Ile Asn Gly Lys Ala Ile Ile Ser Asn Lys Asp Ile Leu
E--> 513           325          330          335
515 Ala Thr Asn Gly Val Ile His Tyr Ile Asp Glu Leu Leu Ile Pro Asp
E--> 516           340          345          350

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*Same
Error*

RAW SEQUENCE LISTING

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518 Ser Ala Lys Thr Leu Phe Glu Leu Ala Ala Glu Ser Asp Val Ser Thr
E--> 519      355      360      365
521 Ala Ile Asp Leu Phe Arg Gln Ala Gly Leu Gly Asn His Leu Ser Gly
E--> 522      370      375      380
524 Ser Glu Arg Leu Thr Leu Leu Ala Pro Leu Asn Ser Val Phe Lys Asp
E--> 525 385      390      395
527 Gly Thr Pro Pro Ile Asp Ala His Thr Arg Asn Leu Leu Arg Asn His
E--> 528      405      410
530 Ile Ile Lys Asp Gln Leu Ala Ser Lys Tyr Leu Tyr His Gly Gln Thr
E--> 531      420      425      430
533 Leu Glu Thr Leu Gly Gly Lys Lys Leu Arg Val Phe Val Tyr Arg Asn
E--> 534      435      440      445
536 Ser Leu Cys Ile Glu Asn Ser Cys Ile Ala Ala His Asp Lys Arg Gly
E--> 537      450      455      460
539 Arg Tyr Gly Thr Leu Phe Thr Met Asp Arg Val Leu Thr Pro Pro Met
E--> 540 465      470      475
542 Gly Thr Val Met Asp Val Leu Lys Gly Asp Asn Arg Phe Ser Met Leu
E--> 543      485      490
545 Val Ala Ala Ile Gln Ser Ala Gly Leu Thr Glu Thr Leu Asn Arg Glu
E--> 546      500      505      510
548 Gly Val Tyr Thr Val Phe Ala Pro Thr Asn Glu Ala Phe Arg Ala Leu
E--> 549      515      520      525
551 Pro Pro Arg Glu Arg Ser Arg Leu Leu Gly Asp Ala Lys Glu Leu Ala
E--> 552      530      535      540
554 Asn Ile Leu Lys Tyr His Ile Gly Asp Glu Ile Leu Val Ser Gly Gly
E--> 555 545      550      555
557 Ile Gly Ala Leu Val Arg Leu Lys Ser Leu Gln Gly Asp Lys Leu Glu
E--> 558      565      570
560 Val Ser Leu Lys Asn Asn Val Val Ser Val Asn Lys Glu Pro Val Ala
E--> 561      580      585      590
563 Glu Pro Asp Ile Met Ala Thr Asn Gly Val Val His Val Ile Thr Asn
E--> 564      595      600      605
566 Val
595 <210> SEQ ID NO: 7
596 <211> LENGTH: 140
597 <212> TYPE: PRT
598 <213> ORGANISM: Artificial Sequence
600 <220> FEATURE:
601 <223> OTHER INFORMATION: Betaig-h3 D-IV(1X) amino acid sequence
604 <400> SEQUENCE: 7
605 Leu Thr Pro Pro Met Gly Thr Val Met Asp Val Leu Lys Gly Asp Asn
E--> 606 1      5      10
608 Arg Phe Ser Met Leu Val Ala Ala Ile Gln Ser Ala Gly Leu Thr Glu
E--> 609      20      25      30
611 Thr Leu Asn Arg Glu Gly Val Tyr Thr Val Phe Ala Pro Thr Asn Glu
E--> 612      35      40      45
614 Ala Phe Arg Ala Leu Pro Pro Arg Glu Arg Ser Arg Leu Leu Gly Asp
E--> 615      50      55      60
617 Ala Lys Glu Leu Ala Asn Ile Leu Lys Tyr His Ile Gly Asp Glu Ile

```

400

415

480

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*Same
Gene*

RAW SEQUENCE LISTING

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Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\02272007\J511719A.raw

```

E--> 618 65          70          75          80
      620 Leu Val Ser Gly Gly Ile Gly Ala Leu Val Arg Leu Lys Ser Leu Gln
E--> 621          85          90          95
      623 Gly Asp Lys Leu Glu Val Ser Leu Lys Asn Asn Val Val Ser Val Asn
E--> 624          100         105         110
      626 Lys Glu Pro Val Ala Glu Pro Asp Ile Met Ala Thr Asn Gly Val Val
E--> 627          115         120         125
      629 His Val Ile Thr Asn Val Leu Gln Pro Pro Ala Asn
E--> 630          130         135         140
      633 <210> SEQ ID NO: 8
      634 <211> LENGTH: 280
      635 <212> TYPE: PRT
      636 <213> ORGANISM: Artificial Sequence
      638 <220> FEATURE:
      639 <223> OTHER INFORMATION: Betaig-h3 D-IV(2X) amino acid sequence
      642 <400> SEQUENCE: 8
      643 Leu Thr Pro Pro Met Gly Thr Val Met Asp Val Leu Lys Gly Asp Asn
E--> 644 1          5          10          15
      646 Arg Phe Ser Met Leu Val Ala Ala Ile Gln Ser Ala Gly Leu Thr Glu
E--> 647          20          25          30
      649 Thr Leu Asn Arg Glu Gly Val Tyr Thr Val Phe Ala Pro Thr Asn Glu
E--> 650          35          40          45
      652 Ala Phe Arg Ala Leu Pro Pro Arg Glu Arg Ser Arg Leu Leu Gly Asp
E--> 653          50          55          60
      655 Ala Lys Glu Leu Ala Asn Ile Leu Lys Tyr His Ile Gly Asp Glu Ile
E--> 656 65          70          75          80
      658 Leu Val Ser Gly Gly Ile Gly Ala Leu Val Arg Leu Lys Ser Leu Gln
E--> 659          85          90          95
      661 Gly Asp Lys Leu Glu Val Ser Leu Lys Asn Asn Val Val Ser Val Asn
E--> 662          100         105         110
      664 Lys Glu Pro Val Ala Glu Pro Asp Ile Met Ala Thr Asn Gly Val Val
E--> 665          115         120         125
      667 His Val Ile Thr Asn Val Leu Gln Pro Pro Ala Asn Leu Thr Pro Pro
E--> 668          130         135         140
      670 Met Gly Thr Val Met Asp Val Leu Lys Gly Asp Asn Arg Phe Ser Met
E--> 671 145         150         155         160
      673 Leu Val Ala Ala Ile Gln Ser Ala Gly Leu Thr Glu Thr Leu Asn Arg
E--> 674          165         170         175
      676 Glu Gly Val Tyr Thr Val Phe Ala Pro Thr Asn Glu Ala Phe Arg Ala
E--> 677          180         185         190
      679 Leu Pro Pro Arg Glu Arg Ser Arg Leu Leu Gly Asp Ala Lys Glu Leu
E--> 680          195         200         205
      682 Ala Asn Ile Leu Lys Tyr His Ile Gly Asp Glu Ile Leu Val Ser Gly
E--> 683          210         215         220
      685 Gly Ile Gly Ala Leu Val Arg Leu Lys Ser Leu Gln Gly Asp Lys Leu
E--> 686 225         230         235         240
      688 Glu Val Ser Leu Lys Asn Asn Val Val Ser Val Asn Lys Glu Pro Val
E--> 689          245         250         255
      691 Ala Glu Pro Asp Ile Met Ala Thr Asn Gly Val Val His Val Ile Thr

```

*same
Error*

RAW SEQUENCE LISTING

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Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\02272007\J511719A.raw

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E--> 692                260                265                270
      694 Asn Val Leu Gln Pro Pro Ala Asn
E--> 695                275                280
      698 <210> SEQ ID NO: 9
      699 <211> LENGTH: 420
      700 <212> TYPE: PRT
      701 <213> ORGANISM: Artificial Sequence
      703 <220> FEATURE:
      704 <223> OTHER INFORMATION: Betaig-h3 D-IV(3X) amino acid sequence
      707 <400> SEQUENCE: 9
      708 Leu Thr Pro Pro Met Gly Thr Val Met Asp Val Leu Lys Gly Asp Asn
E--> 709   1             5             10             15
      711 Arg Phe Ser Met Leu Val Ala Ala Ile Gln Ser Ala Gly Leu Thr Glu
E--> 712             20             25             30
      714 Thr Leu Asn Arg Glu Gly Val Tyr Thr Val Phe Ala Pro Thr Asn Glu
E--> 715             35             40             45
      717 Ala Phe Arg Ala Leu Pro Pro Arg Glu Arg Ser Arg Leu Leu Gly Asp
E--> 718             50             55             60
      720 Ala Lys Glu Leu Ala Asn Ile Leu Lys Tyr His Ile Gly Asp Glu Ile
E--> 721   65             70             75             80
      723 Leu Val Ser Gly Gly Ile Gly Ala Leu Val Arg Leu Lys Ser Leu Gln
E--> 724             85             90             95
      726 Gly Asp Lys Leu Glu Val Ser Leu Lys Asn Asn Val Val Ser Val Asn
E--> 727             100            105            110
      729 Lys Glu Pro Val Ala Glu Pro Asp Ile Met Ala Thr Asn Gly Val Val
E--> 730             115            120            125
      732 His Val Ile Thr Asn Val Leu Gln Pro Pro Ala Asn Leu Thr Pro Pro
E--> 733             130            135            140
      735 Met Gly Thr Val Met Asp Val Leu Lys Gly Asp Asn Arg Phe Ser Met
E--> 736 145            150            155            160
      738 Leu Val Ala Ala Ile Gln Ser Ala Gly Leu Thr Glu Thr Leu Asn Arg
E--> 739             165            170            175
      741 Glu Gly Val Tyr Thr Val Phe Ala Pro Thr Asn Glu Ala Phe Arg Ala
E--> 742             180            185            190
      744 Leu Pro Pro Arg Glu Arg Ser Arg Leu Leu Gly Asp Ala Lys Glu Leu
E--> 745             195            200            205
      747 Ala Asn Ile Leu Lys Tyr His Ile Gly Asp Glu Ile Leu Val Ser Gly
E--> 748             210            215            220
      750 Gly Ile Gly Ala Leu Val Arg Leu Lys Ser Leu Gln Gly Asp Lys Leu
E--> 751 225            230            235            240
      753 Glu Val Ser Leu Lys Asn Asn Val Val Ser Val Asn Lys Glu Pro Val
E--> 754             245            250            255
      756 Ala Glu Pro Asp Ile Met Ala Thr Asn Gly Val Val His Val Ile Thr
E--> 757             260            265            270
      759 Asn Val Leu Gln Pro Pro Ala Asn Leu Thr Pro Pro Met Gly Thr Val
E--> 760             275            280            285
      762 Met Asp Val Leu Lys Gly Asp Asn Arg Phe Ser Met Leu Val Ala Ala
E--> 763             290            295            300
      765 Ile Gln Ser Ala Gly Leu Thr Glu Thr Leu Asn Arg Glu Gly Val Tyr

```

*Same
Error*

RAW SEQUENCE LISTING

DATE: 02/27/2007

PATENT APPLICATION: US/10/511,719A

TIME: 11:08:37

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\02272007\J511719A.raw

```

E--> 766 305          310          315          320
      768 Thr Val Phe Ala Pro Thr Asn Glu Ala Phe Arg Ala Leu Pro Pro Arg
E--> 769          325          330          335
      771 Glu Arg Ser Arg Leu Leu Gly Asp Ala Lys Glu Leu Ala Asn Ile Leu
E--> 772          340          345          350
      774 Lys Tyr His Ile Gly Asp Glu Ile Leu Val Ser Gly Gly Ile Gly Ala
E--> 775          355          360          365
      777 Leu Val Arg Leu Lys Ser Leu Gln Gly Asp Lys Leu Glu Val Ser Leu
E--> 778          370          375          380
      780 Lys Asn Asn Val Val Ser Val Asn Lys Glu Pro Val Ala Glu Pro Asp
E--> 781 385          390          395          400
      783 Ile Met Ala Thr Asn Gly Val Val His Val Ile Thr Asn Val Leu Gln
E--> 784          405          410          415
      786 Pro Pro Ala Asn
      787          420
      790 <210> SEQ ID NO: 10
      791 <211> LENGTH: 560
      792 <212> TYPE: PRT
      793 <213> ORGANISM: Artificial Sequence
      795 <220> FEATURE:
      796 <223> OTHER INFORMATION: Betaig-h3 D-IV(4X) amino acid sequence
      799 <400> SEQUENCE: 10
      800 Leu Thr Pro Pro Met Gly Thr Val Met Asp Val Leu Lys Gly Asp Asn
E--> 801 1          5          10          15
      803 Arg Phe Ser Met Leu Val Ala Ala Ile Gln Ser Ala Gly Leu Thr Glu
E--> 804          20          25          30
      806 Thr Leu Asn Arg Glu Gly Val Tyr Thr Val Phe Ala Pro Thr Asn Glu
E--> 807          35          40          45
      809 Ala Phe Arg Ala Leu Pro Pro Arg Glu Arg Ser Arg Leu Leu Gly Asp
E--> 810          50          55          60
      812 Ala Lys Glu Leu Ala Asn Ile Leu Lys Tyr His Ile Gly Asp Glu Ile
E--> 813 65          70          75          80
      815 Leu Val Ser Gly Gly Ile Gly Ala Leu Val Arg Leu Lys Ser Leu Gln
E--> 816          85          90          95
      818 Gly Asp Lys Leu Glu Val Ser Leu Lys Asn Asn Val Val Ser Val Asn
E--> 819          100          105          110
      821 Lys Glu Pro Val Ala Glu Pro Asp Ile Met Ala Thr Asn Gly Val Val
E--> 822          115          120          125
      824 His Val Ile Thr Asn Val Leu Gln Pro Pro Ala Asn Leu Thr Pro Pro
E--> 825          130          135          140
      827 Met Gly Thr Val Met Asp Val Leu Lys Gly Asp Asn Arg Phe Ser Met
E--> 828 145          150          155          160
      830 Leu Val Ala Ala Ile Gln Ser Ala Gly Leu Thr Glu Thr Leu Asn Arg
E--> 831          165          170          175
      833 Glu Gly Val Tyr Thr Val Phe Ala Pro Thr Asn Glu Ala Phe Arg Ala
E--> 834          180          185          190
      836 Leu Pro Pro Arg Glu Arg Ser Arg Leu Leu Gly Asp Ala Lys Glu Leu
E--> 837          195          200          205
      839 Ala Asn Ile Leu Lys Tyr His Ile Gly Asp Glu Ile Leu Val Ser Gly

```

Same
error

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/511,719A

DATE: 02/27/2007

TIME: 11:08:37

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\02272007\J511719A.raw

```

E--> 840      210      215      220
      842 Gly Ile Gly Ala Leu Val Arg Leu Lys Ser Leu Gln Gly Asp Lys Leu
E--> 843 225      230      235      240
      845 Glu Val Ser Leu Lys Asn Asn Val Val Ser Val Asn Lys Glu Pro Val
E--> 846      245      250      255
      848 Ala Glu Pro Asp Ile Met Ala Thr Asn Gly Val Val His Val Ile Thr
E--> 849      260      265      270
      851 Asn Val Leu Gln Pro Pro Ala Asn Leu Thr Pro Pro Met Gly Thr Val
E--> 852      275      280      285
      854 Met Asp Val Leu Lys Gly Asp Asn Arg Phe Ser Met Leu Val Ala Ala
E--> 855      290      295      300
      857 Ile Gln Ser Ala Gly Leu Thr Glu Thr Leu Asn Arg Glu Gly Val Tyr
E--> 858 305      310      315      320
      860 Thr Val Phe Ala Pro Thr Asn Glu Ala Phe Arg Ala Leu Pro Pro Arg
E--> 861      325      330      335
      863 Glu Arg Ser Arg Leu Leu Gly Asp Ala Lys Glu Leu Ala Asn Ile Leu
E--> 864      340      345      350
      866 Lys Tyr His Ile Gly Asp Glu Ile Leu Val Ser Gly Gly Ile Gly Ala
E--> 867      355      360      365
      869 Leu Val Arg Leu Lys Ser Leu Gln Gly Asp Lys Leu Glu Val Ser Leu
E--> 870      370      375      380
      872 Lys Asn Asn Val Val Ser Val Asn Lys Glu Pro Val Ala Glu Pro Asp
E--> 873 385      390      395      400
      875 Ile Met Ala Thr Asn Gly Val Val His Val Ile Thr Asn Val Leu Gln
E--> 876      405      410      415
      878 Pro Pro Ala Asn Leu Thr Pro Pro Met Gly Thr Val Met Asp Val Leu
E--> 879      420      425      430
      881 Lys Gly Asp Asn Arg Phe Ser Met Leu Val Ala Ala Ile Gln Ser Ala
E--> 882      435      440      445
      884 Gly Leu Thr Glu Thr Leu Asn Arg Glu Gly Val Tyr Thr Val Phe Ala
E--> 885      450      455      460
      887 Pro Thr Asn Glu Ala Phe Arg Ala Leu Pro Pro Arg Glu Arg Ser Arg
E--> 888 465      470      475      480
      890 Leu Leu Gly Asp Ala Lys Glu Leu Ala Asn Ile Leu Lys Tyr His Ile
E--> 891      485      490      495
      893 Gly Asp Glu Ile Leu Val Ser Gly Gly Ile Gly Ala Leu Val Arg Leu
E--> 894      500      505      510
      896 Lys Ser Leu Gln Gly Asp Lys Leu Glu Val Ser Leu Lys Asn Asn Val
E--> 897      515      520      525
      899 Val Ser Val Asn Lys Glu Pro Val Ala Glu Pro Asp Ile Met Ala Thr
E--> 900      530      535      540
      902 Asn Gly Val Val His Val Ile Thr Asn Val Leu Gln Pro Pro Ala Asn
E--> 903 545      550      555      560
      906 <210> SEQ ID NO: 11
      907 <211> LENGTH: 5
      908 <212> TYPE: PRT
      909 <213> ORGANISM: peptide
      911 <400> SEQUENCE: 11
      912 Asn Lys Asp Ile Leu

```

2137 Responses can
be either Artificial or
Unknown, pls see glem
10 on Error Summary
sheet.

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/511,719A

DATE: 02/27/2007

TIME: 11:08:37

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\02272007\J511719A.raw

E--> 913 1 5

916 <210> SEQ ID NO: 12

917 <211> LENGTH: 4

918 <212> TYPE: PRT

919 <213> ORGANISM: peptide

921 <400> SEQUENCE: 12

922 Glu Pro Asp Ile

923 1

E--> 927 19

E--> 930 1

*Same Eng.**pls delete*

VERIFICATION SUMMARY

DATE: 02/27/2007

PATENT APPLICATION: US/10/511,719A

TIME: 11:08:38

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\02272007\J511719A.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:20 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
M:332 Repeated in SeqNo=1
L:259 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3
M:332 Repeated in SeqNo=3
L:452 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5
M:332 Repeated in SeqNo=5
L:606 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:7
M:332 Repeated in SeqNo=7
L:644 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:8
M:332 Repeated in SeqNo=8
L:709 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:9
M:332 Repeated in SeqNo=9
L:801 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:10
M:332 Repeated in SeqNo=10
L:913 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:11
L:927 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:12
M:332 Repeated in SeqNo=12